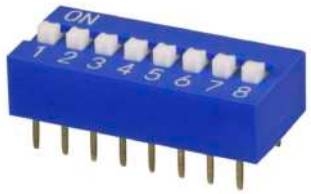
CUI Devices is now Same Sky! Learn More

SERIES: DS01-254 | DESCRIPTION: DIP SWITCH

FEATURES

- 2.54 mm pitch
- convex or flat bottom option
- 1~12 pole options
- long or short pin option
- raised actuator
- through hole



RoHS

SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
rated voltage (per pole)	switching non-switching			24 50	Vdc Vdc
rated current (per pole)	switching non-switching			25 100	mA mA
withstanding voltage	for 1 minute		300		Vac
contact resistance	initial after life test			50 100	mΩ mΩ
insulation resistance	at 500 Vdc	100			MΩ
operating force				1000	g
switch travel				2	mm
operating temperature		-40		85	°C
storage temperature		-40		85	°C
life		2000			cycles
flammability rating	UL94V-0				
RoHS	yes				

SOLDERABILITY

parameter	conditions/description	min	typ	max	units
hand soldering[1]	for maximum 3 seconds	315	320	325	°C
wave soldering[1]	for maximum 5 seconds	240	250	260	°C

Notes: 1. Keep in "off" position during soldering.

PART NUMBER KEY

DS01 X - 254 - X - XX BE

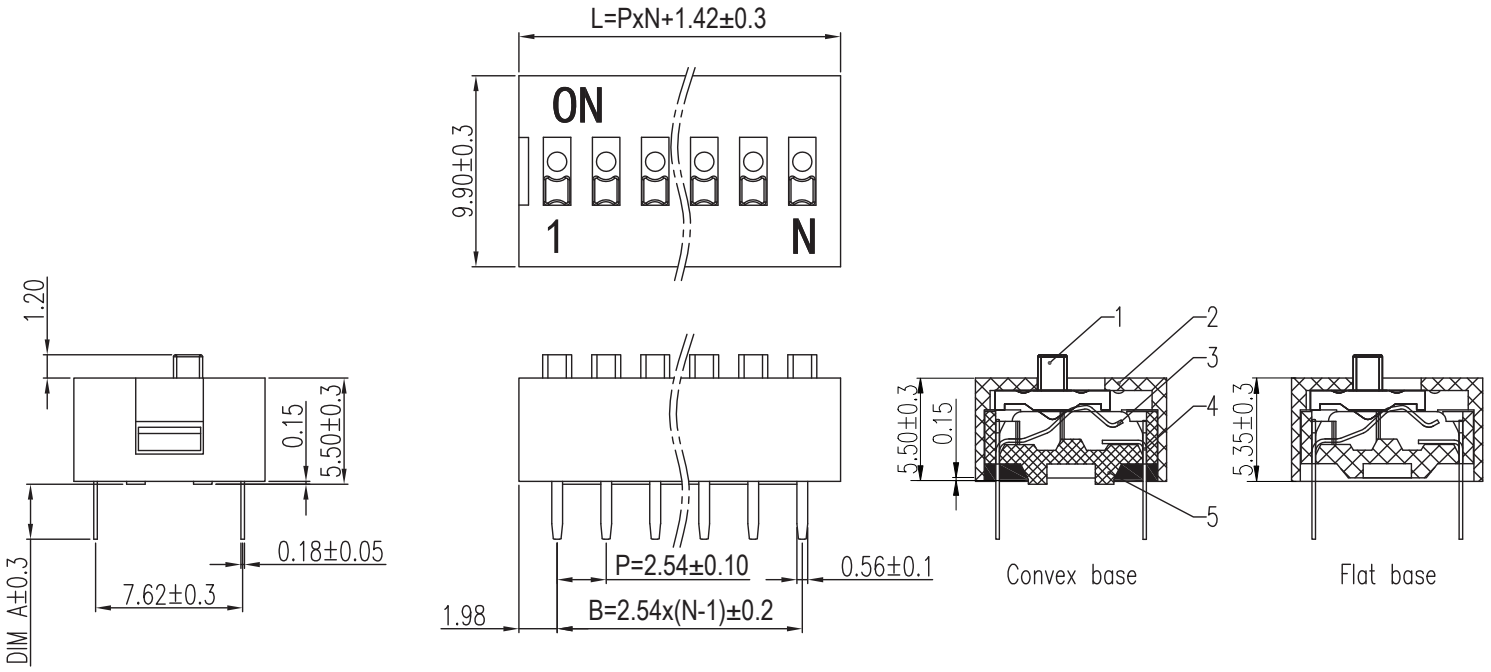
- Base Number
- Base: "blank" = Flat, C[2] = Convex
- Pin Length: S = Short, L = Long
- No. of Poles: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 12

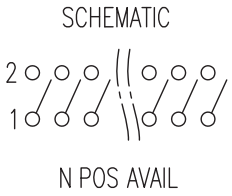
Notes: 2. Convex base only available in poles 3~12.

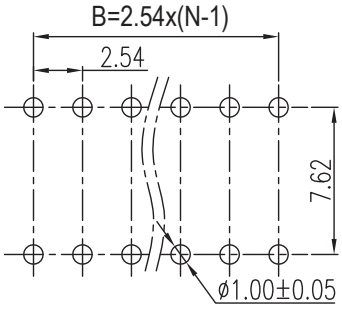
MECHANICAL DRAWING

units: mm
tolerance:
0.5<X≤3.0: ±0.15 mm
3.0<X≤6.0: ±0.20 mm
6.0<X≤30.0: ±0.25 mm
30.0<X≤120.0: ±0.30 mm
120.0<X≤400.0: ±0.50 mm
X>400.0: ±0.80 mm
unless otherwise noted

ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	actuator	PBT (UL94V-0)	white
2	housing	PBT (UL94V-0)	blue
3	pin 1	copper alloy	gold
4	pin 2	copper alloy	gold
5	base	PBT (UL94V-0)	black







Recommended PCB Layout
Top View

PIN LENGTH, A (mm)		
	Short Pin	Long Pin
Flat Base	3.00	3.80
Convex Base	2.85	3.65

This series is constructed of single piece modules where L is the total length, P is the pitch, and N is the number of poles.											
N	01	02	03	04	05	06	07	08	09	10	12
L	3.96	6.50	9.04	11.58	14.12	16.66	19.20	21.74	24.28	26.82	31.90
B	--	2.54	5.08	7.62	10.16	12.70	15.24	17.78	20.32	22.86	27.94

REVISION HISTORY

rev.	description	date
1.0	initial release	11/21/2019
1.01	logo, datasheet style update	08/05/2022
1.02	CUI Devices rebranded to Same Sky	09/12/2024
1.03	updated tolerances	03/24/2025

The revision history provided is for informational purposes only and is believed to be accurate.

Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

Same Sky reserves the right to make changes to the product at any time without notice. Information provided by Same Sky is believed to be accurate and reliable. However, no responsibility is assumed by Same Sky for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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